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2nd CIRP Conference on Composite Material Parts Manufacturing (CIRP-CCMPM 2019)

Editorial

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This Procedia CIRP volume contains the Proceedings of the *2nd CIRP Conference on Composite Material Parts Manufacturing*, which took place at the Advanced Manufacturing Research Centre (AMRC), from 10th to 11th October 2019. The concept of design and manufacture using composite materials introduces unique challenges that often require a multi-disciplinary approach and, subsequently a multi-disciplinary team, to achieve a robust, pragmatic solution suitable for production and design intent. The focus of this conference has been on bringing together and sharing novel production research, technologies and solutions from such teams to the global composite manufacturing community. The intention of this is to push the boundaries of use of such advanced and complex materials and stimulate further global collaboration.

The host of this conference, the University of Sheffield's AMRC, is a network of world-leading research and innovation centres working with manufacturing companies from micro-SMEs to multi-national giants around the globe. Within this network, the AMRC's Composite Centre aims to utilise innovative manufacturing methods and technologies to produce ultra-lightweight, high performance components from composite materials for production sectors including aerospace, space, automotive, construction, oil and gas, medical and renewable energies.

The 2nd CIRP CCMPM continues on from the success of the 1st conference of this series, which was founded in 2017 by Professor Jürgen Fleischer and Professor Roberto Teti. The need for such a conference was identified during a namesake CIRP Collaborative Working Group (CWG). Since the formation of these CWG meetings, the topics "*Design and Lifecycle*", "*Part Generation*" and "*Part Finishing and Assembly*" were each discussed in every meeting, and always with a focus on industrial use-cases. This conference saw the introduction of two new topics, namely "*Hybrid parts manufacture*" and "*Non-destructive testing (NDT)*". The response to the 2nd CIRP CCMPM was immense, with an initial 117 abstracts submitted, with 72 submitted as full manuscripts, of which 59 were accepted for oral presentation and publication in Procedia CIRP. The presenting authors came from 14 countries and 4 continents, confirming the global interest and motivation to enhance and advance composite material parts manufacturing skills, capabilities and technologies.

I should like to express my deep gratitude to all the people and organisations that contributed to the realisation and success of the Conference: Prof. Fleischer, Prof. Teti, Prof. Potluri and Prof. Talreja for their highly appreciated Keynote presentation in the Plenary Sessions; the Session Chairmen for stimulating and managing the technical discussions; the Referees for their expert advice and assistance; all the Authors for their high-level contributions and presentations in the Technical Sessions. Finally, let me thank my Conference Co-Chairs, Prof. Paul Mativenga and Prof. Keith Ridgway, as well as Guest Editor, Dr Hassan El-Dessouky, for their experience, wisdom, support and hard work in the build-up to the event; the Conference Secretary, Ms Kylie Wheeler, and the Organising Committee Members for their substantive efforts; AMRC personnel and IDC graduate students as well as assistant staff for their energy and team-work; last but not least, Ms Emma Smith for her support in the organisation of the Conference Social Events. Particular thanks are due to the International Academy for Production Engineering (CIRP), the main scientific sponsor of the CIRP CCMPM Conference Series, and, finally, the Conference main supporting body, The University of Sheffield, is gratefully acknowledged for its organizational and financial assistance to the event activities.

Rotherham, October 2019

Kevin Kerrigan
CIRP CCMPM Conference Series
Chairman and Managing Editor